

	A	B	C	D	E	F	G	H
1	Scenario Worksheet							
2								
3	Practice and Scenario Description:							
4	Information Type	Data						
5	Region Name	National						
6	Discipline Group	Conservation Activity Plans						
7	Practice Code/Name	102-Comprehensive Nutrient Management Plan						
8	Scenario ID	4						
9	Scenario Name	Medium Dairy with land application						
10	Scenario Description	<p>A Comprehensive Nutrient Management Plan (CNMP) will be developed to address resource concerns on a medium Dairy Animal Feeding Operation (AFO) of greater than or equal to 300 and less than 700 animal units (AU). The producer may export (material transferred to another owner with written documentation of the transfer) modest amounts of the manure or organic products from the farm. For operations where manure is both applied to land the AFO owner/operator controls and exported offsite, guidance to determine appropriate CNMP CAP scenario selection shall be provided by NRCS at the state level. The producer has an animal production area, farms cropland and applies most of his own nutrients. The CNMP is a conservation plan that addresses resource concerns on the AFO production area and land application areas. Production area components of the plan must include animal confinement facilities, feeding and lounging lots, animal mortality facilities, and manure containment and storage facilities. Land application components of the plan must include all lands under the control of the AFO owner or operator where waste materials are being applied. Planned practices on the production area and land application areas must result in meeting NRCS quality criteria for water quality and soil erosion. Any applicable air emission and negative air quality impacts occurring as a result of planned CNMP activities, or existing on-farm activities must be mitigated in the CNMP if feasible. The CNMP meets the AFO owner/operator's production objectives.</p>						
11	Before Practice Situation	<p>The owner/operator of a medium sized Dairy AFO has not received a written Comprehensive Nutrient Management Plan (CNMP) that addresses all resource concerns present on the facility production area and land waste application areas. Various levels of management and conservation implementation has occurred on the farm. Little documentation of the systems used and practices installed exists. The producer may or may not have a conservation plan or a nutrient management plan. Partial implementation of CNMP-related practices for the AFO has potentially occurred. Resource concerns on the AFO production area and land waste application areas remain to be addressed through the development of a complete CNMP including management and conservation practices for proper manure/wastewater storage and handling, proper disposal of animal mortality, treatment of land application areas to reduce soil erosion to sustainable levels, and application of waste nutrients at an agronomic rate that meets application crop needs and does not exceed soil risk analysis assessment condition. Negative air quality impacts and farmstead safety and security issues may remain on the AFO, and recordkeeping methods for crop yields, inspection and monitoring of the existing CNMP-related practices, and manure application and imports/exports may need further improvement.</p>						
12	After Practice Situation	<p>A certified Technical Services Provider (TSP) has delivered, to the AFO owner/operator, a comprehensive conservation plan meeting CNMP CAP criteria (NI_190_304 - Part 304 - Comprehensive Nutrient Management Plan Technical Criteria) that describes management and conservation practice solutions to all identified resource concerns on the medium-sized Dairy AFO production area and land application areas. Management and conservation practices in the CNMP document delivered to the client ensure that, if implemented, the AFO will properly, within applicable NRCS standards and specifications, store, handle, and contain manure and wastewater materials generated by the AFO; dispose of AFO mortality; implement conservation practices to reduce soil erosion on land application areas to sustainable levels; land apply waste material nutrients in a manner that meets NRCS 590 Nutrient Management standard technical criteria. Alternatives presented within the CNMP have been made to mitigate, if feasible, negative air quality impacts and improve farmland safety and security. Accurate recordkeeping documents for crop yields, operation and maintenance of existing and new CNMP-related practices, manure application, AFO manure imports and exports, and other information relevant to the management and compliance of the AFO with state and/or local rules and regulations are included in the CNMP. If the CNMP is not implemented all identified resource concerns will still exist.</p>						
13	Scenario Feature Measure	Each						
14	Scenario Unit	Each						
15	Scenario Typical Size	1						
16								
17	Cost Summary:							
18	Cost Category	Scenario Cost	Scenario Cost/Unit					
19	Materials	\$0.00	\$0.00					
20	Equipment/Installation	\$0.00	\$0.00					
21	Labor	\$10,750.28	\$10,750.28					
22	Mobilization	\$0.00	\$0.00					
23	Acquisition of Technical Knowledge	\$0.00	\$0.00					
24	Foregone Income (Annual)	\$0.00	\$0.00					
25	All	\$10,750.28	\$10,750.28					
26								
27	Cost Details:							
28	Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
29	Materials	3	Material A		Yard	\$0.00	-	\$0.00
30	Materials	4	Material B		Each	\$0.00	-	\$0.00
31	Materials	5	Material C		Ton	\$0.00	-	\$0.00
32	Equipment/Installation	6	Equipment A		Hour	\$0.00	-	\$0.00
33	Equipment/Installation	7	Equipment B		Hour	\$0.00	-	\$0.00
34	Equipment/Installation	8	Equipment C		Hour	\$0.00	-	\$0.00
35	Labor	1297	CAP Labor, professional engineer	Conservation Activity Plan labor to apply knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing of agricultural products. Cost associated with this component includes overhead and benefits (market price).	Hour	\$77.36	82	\$6,343.52
36	Labor	1296	CAP Labor, small surveying crew	Conservation Activity Plan labor to perform surveying and mapping duties, usually under the direction of an engineer, surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate mapmaking information and create maps from source data, such as surveying notes, aerial photography, satellite data, or other maps to show topographical features, political boundaries, and other features. Cost associated with this component includes two man field crew, equipment, vehicle, overhead, and miscellaneous supplies.	Hour	\$97.50	10	\$975.00
37	Labor	1591	Cap Labor, Survey and Mapping Technician	Conservation Activity Plan labor to perform surveying and mapping duties, usually under the direction of an engineer, surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate mapmaking information and create maps from source data, such as surveying notes, aerial photography, satellite data, or other maps to show topographical features, political boundaries, and other features. May verify accuracy and completeness of maps.	Hour	\$43.73	12	\$524.76
38	Labor	1300	Cap Labor, conservation scientist	Conservation Activity Plan labor to manage, improve, and protect natural resources to maximize their use without damaging the environment. Interprets resource information and assess resource conditions to provide conservation practice alternatives to producers to make decisions on the treatment of their soil, water, air, plant, animal, and energy resources. May instruct farmers, agricultural production managers, or ranchers in best ways to use crop rotation, contour plowing, or terracing to conserve soil and water; in the number and kind of livestock and forage plants best suited to particular ranges; and in range and farm improvements, such as fencing and reservoirs for stock watering.	Hour	\$51.00	57	\$2,907.00
39	Mobilization	31	Mobilization, medium equipment		Each	\$0.00	-	\$0.00
40	Mobilization	32	Mobilization, very small equipment		Each	\$0.00	-	\$0.00
41	Mobilization	33	Mobilization, General labor		Hour	\$0.00	-	\$0.00
42	Acquisition of Technical Knowledge	45	Training A		Hour	\$0.00	-	\$0.00
43	Acquisition of Technical Knowledge	46	Training B		Each	\$0.00	-	\$0.00
44	Acquisition of Technical Knowledge	47	Training C		Hour	\$0.00	-	\$0.00
45	Foregone Income	57	FI A					\$0.00
46	Foregone Income	58	FI B					\$0.00
47	Foregone Income	59	FI C					\$0.00